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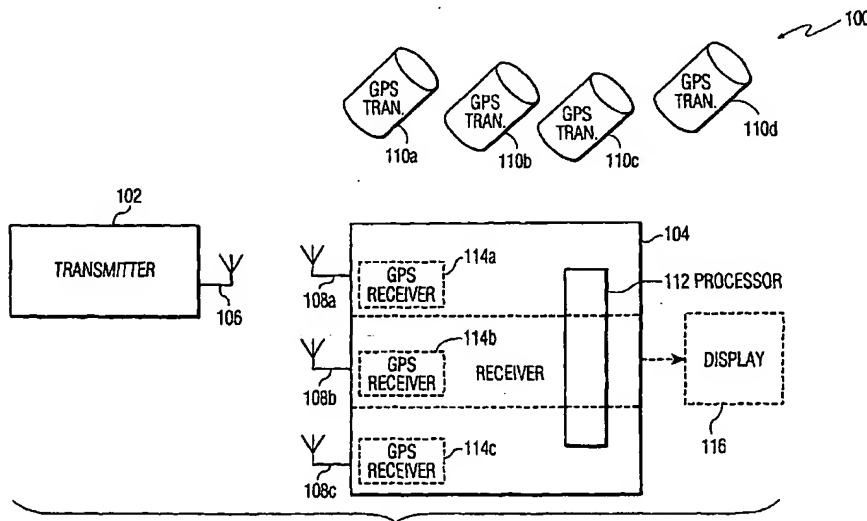
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(54) Title: USING MULTIPLE RECEIVE ANTENNAS TO DETERMINE THE LOCATION OF A TRANSMITTER WITH RESPECT TO A RECEIVER IN ULTRA WIDEBAND SYSTEMS



(57) Abstract: An apparatus, system, method, and computer program product for determining a location of at least an image of a transmitter transmitting a signal is disclosed. The location of at least the image of the transmitter is determined by receiving a signal transmitted by the transmitter at at least three receiver antennas separated by known distances. Differences in time are then determined between receipt of the signal at one of the receiver antennas and at least two other receiver antennas. The known distances and the determined differences in receipt times are then processed to determine the location of the transmitter.